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1653

1600439



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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/000,439

DATE: 02/26/2002

TIME: 13:24:09

Input Set : A:\UC067.004A-SEQ-ID.txt  
Output Set: N:\CRF3\02262002\J000439.raw

4 <110> APPLICANT: Saxon, Andrew  
 6 <120> TITLE OF INVENTION: FUSION MOLECULES AND METHODS FOR  
 7 TREATMENT OF IMMUNE DISEASES  
 10 <130> FILE REFERENCE: UC067.004A  
 12 <140> CURRENT APPLICATION NUMBER: US 10/000,439  
 13 <141> CURRENT FILING DATE: 2001-10-24  
 15 <150> PRIOR APPLICATION NUMBER: US 09/847,208  
 16 <151> PRIOR FILING DATE: 2001-05-01  
 18 <160> NUMBER OF SEQ ID NOS: 13  
 20 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 22 <210> SEQ ID NO: 1  
 23 <211> LENGTH: 696  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Homo sapiens  
 27 <400> SEQUENCE: 1  
 28 gagcccaaat cttgtgacaa aactcacaca tgcccaccgt gcccagcacc tgaactcctg 60  
 29 gggggaccgt cagtcttcct cttccccca aaacccaagg acaccctcat gatctcccg 120  
 30 acccctgagg tcacatgcgt ggtgggtggac gtgagccacg aagaccctga ggtcaagttc 180  
 31 aactggtagc tggacggcgt ggaggtgcat aatgttaaga caaagccgcg ggaggagcag 240  
 32 tacaacagca cgtaccgtgt ggtcagcgtc ctcaccgtcc tgcaccagaa ctggatgaat 300  
 33 gaaaaaggagt acaagtgc aaagcttccaaac aaagccctcc cagccccat cgaaaaacc 360  
 34 atctccaaag ccaaagtgc gccccgagaa ccacaggtgt acaccctgcc cccatcccg 420  
 35 gatgagctga ccaagaacca ggtcagcctg acctgcctgg tcaaaggctt ctatcccagc 480  
 36 gacatcgccg tggagtggga gagcaatggg cagccoggaga acaactacaa gaccacgcct 540  
 37 cccgtgctgg actccgtcgg ctccttcttc ctctacagca agctcaccgt ggacaagagc 600  
 38 agtgtggcagc aggggaacgt cttctcatgc tccgtgatgc atgaggctct gcacaaccac 660  
 39 taccagcaga ggaccctctc cctgtctccg ggtaaa 696  
 41 <210> SEQ ID NO: 2  
 42 <211> LENGTH: 330  
 43 <212> TYPE: PRT  
 44 <213> ORGANISM: Homo sapiens  
 46 <400> SEQUENCE: 2  
 47 Ala Ser Thr Lys Gly Pro Ser Val Phe Pro Leu Ala Pro Ser Ser Lys  
 48 1 5 10 15  
 49 Ser Thr Ser Gly Gly Thr Ala Ala Leu Gly Cys Leu Val Lys Asp Tyr  
 50 20 25 30  
 51 Phe Pro Glu Pro Val Thr Val Ser Trp Asn Ser Gly Ala Leu Thr Ser  
 52 35 40 45  
 53 Gly Val His Thr Phe Pro Ala Val Leu Gln Ser Ser Gly Leu Tyr Ser  
 54 50 55 60  
 55 Leu Ser Ser Val Val Thr Val Pro Ser Ser Ser Leu Gly Thr Gln Thr  
 56 65 70 75 80  
 57 Tyr Ile Cys Asn Val Asn His Lys Pro Ser Asn Thr Lys Val Asp Lys

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58 85 90 95  
 59 Lys Val Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys  
 60 100 105 110  
 61 Pro Ala Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro  
 62 115 120 125  
 63 Lys Pro Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys  
 64 130 135 140  
 65 Val Val Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp  
 66 145 150 155 160  
 67 Tyr Val Asp Gly Val Glu Val His Asn Val Lys Thr Lys Pro Arg Glu  
 68 165 170 175  
 69 Glu Gln Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu  
 70 180 185 190  
 71 His Gln Asn Trp Met Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn  
 72 195 200 205  
 73 Lys Ala Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Val  
 74 210 215 220  
 75 Gln Pro Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu  
 76 225 230 235 240  
 77 Leu Thr Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr  
 78 245 250 255  
 79 Pro Ser Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn  
 80 260 265 270  
 81 Asn Tyr Lys Thr Thr Pro Pro Val Leu Asp Ser Val Gly Ser Phe Phe  
 82 275 280 285  
 83 Leu Tyr Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn  
 84 290 295 300  
 85 Val Phe Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Gln  
 86 305 310 315 320  
 87 Gln Arg Ser Leu Ser Leu Ser Pro Gly Lys  
 88 325 330  
 91 <210> SEQ ID NO: 3  
 92 <211> LENGTH: 232  
 93 <212> TYPE: PRT  
 94 <213> ORGANISM: Homo sapiens  
 96 <400> SEQUENCE: 3  
 97 Glu Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala  
 98 1 5 10 15  
 99 Pro Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro  
 100 20 25 30  
 101 Lys Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val  
 102 35 40 45  
 103 Val Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val  
 104 50 55 60  
 105 Asp Gly Val Glu Val His Asn Val Lys Thr Lys Pro Arg Glu Glu Gln  
 106 65 70 75 80  
 107 Tyr Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln  
 108 85 90 95  
 109 Asn Trp Met Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala

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110 100 105 110  
 111 Leu Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Val Gln Pro  
 112 115 120 125  
 113 Arg Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Asp Glu Leu Thr  
 114 130 135 140  
 115 Lys Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser  
 116 145 150 155 160  
 117 Asp Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr  
 118 165 170 175  
 119 Lys Thr Thr Pro Pro Val Leu Asp Ser Val Gly Ser Phe Phe Leu Tyr  
 120 180 185 190  
 121 Ser Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe  
 122 195 200 205  
 123 Ser Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Gln Gln Arg  
 124 210 215 220  
 125 Ser Leu Ser Leu Ser Pro Gly Lys  
 126 225 230  
 129 <210> SEQ ID NO: 4  
 130 <211> LENGTH: 1445  
 131 <212> TYPE: DNA  
 132 <213> ORGANISM: Homo sapiens  
 134 <400> SEQUENCE: 4  
 135 tccacacaga gccatccgt cttcccttg acccgctgct gcaaaaacat tccctccat 60  
 136 gcccaccccg tgactctggg ctgcctggcc acgggtact tcccgagcc ggtgatgggt 120  
 137 acctggggaca caggctccct caacggggaca actatgacct taccagccac caccctcact 180  
 138 ctctctggc actatgccac catcagctt ctgaccgtct cgggtgcgtg gccaaggcag 240  
 139 atgttacact gccgtgtggc acacactcca tcgtccacag actgggtcga caacaaaacc 300  
 140 ttcagcgtct gtcacggga cttcaccccg cccaccgtga agatcttaca gtcgtcctgc 360  
 141 gacggcggcg ggcacccc cccgaccatc cagctcctgt gcctcgctc tggtacacc 420  
 142 ccaggggacta tcaacatcac ctggctggag gacggggcagg tcatggacgt ggacttgc 480  
 143 accgcctcta ccacgcagga gggtagctg gcctccacac aaagcgagct caccctcagc 540  
 144 cagaaggact ggctgtcaga ccgcacccac acctgcccagg tcacctatca aggtcacacc 600  
 145 tttgaggaca gcaccaagaa gtgtcagat tccaaacccga gaggggttag cgccctaccta 660  
 146 agccggccca gcccgttca cctgttcatc cgcaagtgc cCACGATCAC ctgtctgggt 720  
 147 gtggacccctt caccacgaa ggggaccgtg aacctgaccc ggtcccccggc cagtgaaag 780  
 148 cctgtgaacc actccaccag aaaggaggag aagcagcgc atggcactt aaccgtcact 840  
 149 tccaccctgc cgggtggcac ccgagactgg atcgagggggg agacctacca gtgcagggtg 900  
 150 accccacccccc acctgcccac ggcctcatg cgggtccacga ccaagaccag cggcccggt 960  
 151 gctccccccgg aagtctatgc gtttgcacg ccggagttgc cggggggccgg ggacaagcgc 1020  
 152 accctcgccct gcctgatcca gaacttcatg cctgaggaca tctcggtgca gtggctgcac 1080  
 153 aacgagggtgc agctcccgaa cggccggcac agcacgcacg agcccccggca gaccaaggc 1140  
 154 tccggcttct tcgttccatc ccgcctggag gtgaccagg ccgaatggga gcagaaagat 1200  
 155 gagttcatct gccgtgcagt ccatgaggca gcgagccct cacagaccgt ccagcgagcg 1260  
 156 gtgtctgtaa atcccggtaa atgacgtact cctgcctccc tccctccca ggtccatcc 1320  
 157 agctgtgcag tggggaggac tggccagacc ttctgtccac tggtaatg accccaggaa 1380  
 158 gctaccccca ataaactgtg cctgctcaga gcccagtac acccattttt gggagcgggc 1440  
 159 agggc 1445  
 161 <210> SEQ ID NO: 5  
 162 <211> LENGTH: 427

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163 <212> TYPE: PRT  
164 <213> ORGANISM: Homo sapiens  
166 <400> SEQUENCE: 5  
167 Ser Thr Gln Ser Pro Ser Val Phe Pro Leu Thr Arg Cys Cys Lys Asn  
168 1 5 10 15  
169 Ile Pro Ser Asn Ala Thr Ser Val Thr Leu Gly Cys Leu Ala Thr Gly  
170 20 25 30  
171 Tyr Phe Pro Glu Pro Val Met Val Thr Trp Asp Thr Gly Ser Leu Asn  
172 35 40 45  
173 Gly Thr Thr Met Thr Leu Pro Ala Thr Thr Leu Thr Leu Ser Gly His  
174 50 55 60  
175 Tyr Ala Thr Ile Ser Leu Leu Thr Val Ser Gly Ala Trp Ala Lys Gln  
176 65 70 75 80  
177 Met Phe Thr Cys Arg Val Ala His Thr Pro Ser Ser Thr Asp Trp Val  
178 85 90 95  
179 Asp Asn Lys Thr Phe Ser Val Cys Ser Arg Asp Phe Thr Pro Pro Thr  
180 100 105 110  
181 Val Lys Ile Leu Gln Ser Ser Cys Asp Gly Gly His Phe Pro Pro  
182 115 120 125  
183 Thr Ile Gln Leu Leu Cys Leu Val Ser Gly Tyr Thr Pro Gly Thr Ile  
184 130 135 140  
185 Asn Ile Thr Trp Leu Glu Asp Gly Gln Val Met Asp Val Asp Leu Ser  
186 145 150 155 160  
187 Thr Ala Ser Thr Thr Gln Glu Gly Glu Leu Ala Ser Thr Gln Ser Glu  
188 165 170 175  
189 Leu Thr Leu Ser Gln Lys His Trp Leu Ser Asp Arg Thr Tyr Thr Cys  
190 180 185 190  
191 Gln Val Thr Tyr Gln Gly His Thr Phe Glu Asp Ser Thr Lys Lys Cys  
192 195 200 205  
193 Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr Leu Ser Arg Pro Ser  
194 210 215 220  
195 Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr Ile Thr Cys Leu Val  
196 225 230 235 240  
197 Val Asp Leu Ala Pro Ser Lys Gly Thr Val Asn Leu Thr Trp Ser Arg  
198 245 250 255  
199 Ala Ser Gly Lys Pro Val Asn His Ser Thr Arg Lys Glu Glu Lys Gln  
200 260 265 270  
201 Arg Asn Gly Thr Leu Thr Val Thr Ser Thr Leu Pro Val Gly Thr Arg  
202 275 280 285  
203 Asp Trp Ile Glu Gly Glu Thr Tyr Gln Cys Arg Val Thr His Pro His  
204 290 295 300  
205 Leu Pro Arg Ala Leu Met Arg Ser Thr Thr Lys Thr Ser Gly Pro Arg  
206 305 310 315 320  
207 Ala Ala Pro Glu Val Tyr Ala Phe Ala Thr Pro Glu Trp Pro Gly Ser  
208 325 330 335  
209 Arg Asp Lys Arg Thr Leu Ala Cys Leu Ile Gln Asn Phe Met Pro Glu  
210 340 345 350  
211 Asp Ile Ser Val Gln Trp Leu His Asn Glu Val Gln Leu Pro Asp Ala  
212 355 360 365

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213 Arg His Ser Thr Thr Gln Pro Arg Lys Thr Lys Gly Ser Gly Phe Phe  
 214 370 375 380  
 215 Val Phe Ser Arg Leu Glu Val Thr Arg Ala Glu Trp Glu Gln Lys Asp  
 216 385 390 395 400  
 217 Glu Phe Ile Cys Arg Ala Val His Glu Ala Ala Ser Pro Ser Gln Thr  
 218 405 410 415  
 219 Val Gln Arg Ala Val Ser Val Asn Pro Gly Lys  
 220 420 425  
 223 <210> SEQ ID NO: 6  
 224 <211> LENGTH: 320  
 225 <212> TYPE: PRT  
 226 <213> ORGANISM: Homo sapiens  
 228 <400> SEQUENCE: 6  
 229 Phe Thr Pro Pro Thr Val Lys Ile Leu Gln Ser Ser Cys Asp Gly Gly  
 230 1 5 10 15  
 231 Gly His Phe Pro Pro Thr Ile Gln Leu Leu Cys Leu Val Ser Gly Tyr  
 232 20 25 30  
 233 Thr Pro Gly Thr Ile Asn Ile Thr Trp Leu Glu Asp Gly Gln Val Met  
 234 35 40 45  
 235 Asp Val Asp Leu Ser Thr Ala Ser Thr Thr Gln Glu Gly Glu Leu Ala  
 236 50 55 60  
 237 Ser Thr Gln Ser Glu Leu Thr Leu Ser Gln Lys His Trp Leu Ser Asp  
 238 65 70 75 80  
 239 Arg Thr Tyr Thr Cys Gln Val Thr Tyr Gln Gly His Thr Phe Glu Asp  
 240 85 90 95  
 241 Ser Thr Lys Lys Cys Ala Asp Ser Asn Pro Arg Gly Val Ser Ala Tyr  
 242 100 105 110  
 243 Leu Ser Arg Pro Ser Pro Phe Asp Leu Phe Ile Arg Lys Ser Pro Thr  
 244 115 120 125  
 245 Ile Thr Cys Leu Val Val Asp Leu Ala Pro Ser Lys Gly Thr Val Asn  
 246 130 135 140  
 247 Leu Thr Trp Ser Arg Ala Ser Gly Lys Pro Val Asn His Ser Thr Arg  
 248 145 150 155 160  
 249 Lys Glu Glu Lys Gln Arg Asn Gly Thr Leu Thr Val Thr Ser Thr Leu  
 250 165 170 175  
 251 Pro Val Gly Thr Arg Asp Trp Ile Glu Gly Glu Thr Tyr Gln Cys Arg  
 252 180 185 190  
 253 Val Thr His Pro His Leu Pro Arg Ala Leu Met Arg Ser Thr Thr Lys  
 254 195 200 205  
 255 Thr Ser Gly Pro Arg Ala Ala Pro Glu Val Tyr Ala Phe Ala Thr Pro  
 256 210 215 220  
 257 Glu Trp Pro Gly Ser Arg Asp Lys Arg Thr Leu Ala Cys Leu Ile Gln  
 258 225 230 235 240  
 259 Asn Phe Met Pro Glu Asp Ile Ser Val Gln Trp Leu His Asn Glu Val  
 260 245 250 255  
 261 Gln Leu Pro Asp Ala Arg His Ser Thr Thr Gln Pro Arg Lys Thr Lys  
 262 260 265 270  
 263 Gly Ser Gly Phe Phe Val Phe Ser Arg Leu Glu Val Thr Arg Ala Glu  
 264 275 280 285



Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY  
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Input Set : A:\UC067.004A-SEQ-ID.txt  
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L:389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:391 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:10  
L:406 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11  
L:408 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:11